Aviation Transition to IP-based Protocols

ACAST - Networks
Workshop

August 24, 2004

Aviation and IP - One Page History/Status

Accelerating CNS

- **AEEC Aircraft Data Network 664 Specification – A380 – Interest in IP (1998+)**
- **NASA GRC ATN over IP studies 1999-2002 (requirements, operation benefits, costs, and architecture)– includes IP over VDL.**
- **Part 8 of ADN 664 currently focusing consensus on transition approach for non-IP application interoperability**
- **ATNP defines SNDCF approach for ground gateway**
- **NASA GRC SATS Airborne Internet studies and equipage**
- **ICNS Conference Workshop/Sessions/Presentations related to e-enabled aircraft (AEEC 664/628/763, ESU) show an ever increasing technical review**
- **Eurocontrol: IPSky Project (2000-1) then the iPAX project (2003-4)**
- **DoD : Ipv6 transition directive (2003)**
- **Current ICAO ACP WG N conducting IP interest survey**
- **Issue: IP mobility requirements for flight critical applications:**
  - **Dual Homing**
  - **Simultaneous dual connectivity**
  - **Policy routing**
  - **IETF NeMO**
- **Airborne Internet Consortium – now forming**